TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-28-04** **Date: 08-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts at Kuvempunagara 1st Stage and Varadarajanagara areas in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer Reference	:	BBMP/EE/BTP/WO/132/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-17
Sample ID No	:	2017-02-28-04-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	28-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	143	143	2.86	97.14	95-100
3	10 mm	2165	2308	46.16	53.84	25-55
4	4.75 mm	2567	4875	97.5	2.5	0-5
5	Pan	125	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-28-04** **Date: 08-03-2017**

Sample ID No : 2017-02-28-04-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.8	_
2	Elongation Index(%)	13.2	_
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.17	_
7	Ten percent fine value(KN)	202	_
8	Aggregate crushing Value(%)	23.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	21.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

Note:
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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-28-04** **Date: 08-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts at Kuvempunagara 1st Stage and Varadarajanagara areas in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/132/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-02-17
Sample ID No	:	2017-02-28-04-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	28-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	132	132	2.64	97.4	95-100
3	20 mm	1843	1975	39.5	60.5	30-70
4	10 mm	1756	3731	74.62	25.4	10-35
5	4.75 mm	956	4687	93.74	6.3	0-5
6	Pan	313	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-28-04** **Date: 08-03-2017**

Sample ID No : 2017-02-28-04-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	14.2	_
2	Elongation Index(%)	12.9	_
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.20	_

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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-28-04** **Date: 29-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts at Kuvempunagara 1st Stage and Varadarajanagara areas in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/132/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-17
Sample ID No	:	2017-02-28-04-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-02-2017 to 28-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m2/kg, Min)	268.5	225m^2/kg, Min
3	Density (gm/cc)	2.8	–
4	Standard Consistency (%)	31.0%	Not specified
5	Initial Setting time	235minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-28-04** **Date: 29-03-2017**

Sample ID No : **2017-02-28-04-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	325 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	30.5N/mm^2	Not less than 27 N/mm^2
	7 Days	42.5N/mm^2	Not less than 37 N/mm^2
	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-05-01** **Date: 29-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts at Kuvempunagara 1st Stage and Varadarajanagara areas in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/132/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-17

Sample ID No : 2017-04-05-01-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/04/2017	29/04/2017	150.55 X 150.45 X 150.23	22650	8.118	412.2	18.2	18.6
2	PCC	M15	01/04/2017	29/04/2017	150.22 X 150.19 X 150.75	22562	8.276	419.6	18.6	
3	PCC	M15	01/04/2017	29/04/2017	150.87 X 150.42 X 150.23	22694	8.256	428.9	18.9	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-05-01** **Date: 10-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts at Kuvempunagara 1st Stage and Varadarajanagara areas in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/132/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-17

Sample ID No : 2017-04-05-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/04/2017	08/04/2017	150.18 X 150.19 X 150.23	22556	8.387	300.0	13.3	13.7
2	PCC	M15	01/04/2017	08/04/2017	150.22 X 150.16 X 150.29	22557	8.298	311.3	13.8	
3	PCC	M15	01/04/2017	08/04/2017	150.32 X 150.32 X 150.00	22596	8.199	314.1	13.9	

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Date.....
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